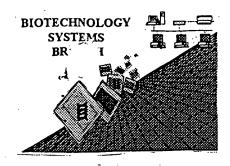
## RAW SEQUE. \_E LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09 1937,862
Source:	PCT09
Date Processed by STIC:	10130101

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09 937, 862
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) NFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823) of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

#### PCT09

DATE: 10/30/2001

TIME: 13:19:11

```
Input Set : A:\W112887.txt
                      Output Set: N:\CRF3\10302001\I937862.raw
                                                                    Does Not Comply
                                                                    Corrected Diskette Needed
W--> 4 <110> APPLICANT:
              Oberste, M. Steven
W--> 6
              Maher, Kaija
    7
              Kilpatrick, David R.
              Pallansch, Mark A.
     12 <120> TITLE OF INVENTION: TYPING OF HUMAN NON-POLIO ENTEROVIRUSES
     14 <130> FILE REFERENCE: 14114.0353U2
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/937,862
C--> 16 <141> CURRENT FILING DATE: 2001-09-28
     16 <150> PRIOR APPLICATION NUMBER: PCT/US00/07828
W--> 17 <151> PRIOR FILING DATE: 2000-3-24
     19 <150> PRIOR APPLICATION NUMBER: 60/127,464
W--> 20 <151> PRIOR FILING DATE: 1999-3-31
                                                               The type of errors shown exist throughout
     22 <160> NUMBER OF SEQ ID NOS: 86
                                                               the Sequence Listing. Please check subsequent
     24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
                                                               sequences for similar errors.
     26 <210> SEQ ID NO: 1
     27 <211> LENGTH: 20
     28 <212> TYPE: DNA
     29 <213> ORGANISM: Artificial Sequence
                                       must explain, see error summary sheet, Item 1
W--> 31 <220> FEATURE:
W-->/31 <223> OTHER INFORMATION:
                                             Sound
     31 <400> SEQUENCE: 1
     32 gcrtgcaatg ayttctcwgt
                                                                                     20
     34 <210> SEQ ID NO: 2
                                                  missim
                                                 ><221> must provide appropriate identifier
2227 must gru location of n + identify n
     35 <211> LENGTH: 18
     36 <212> TYPE: DNA
     37 <213> ORGANISM: (Artificial Sequence)
                                                                    Ase errorsummy sheet item
W--> 39 <220> FEATURE:
                                       some onex
W--> 39 <223> OTHER INFORMATION:
                                           Item 11
     39 <400> SEQUENCE: 2
                                                                                    18
W--> 40 ngcnccdgat tgntgscc
     42 <210> SEQ ID NO: 3
     43 <211> LENGTH: 20
     44 <212> TYPE: DNA
     45 <213> ORGANISM: Artificial Sequence
     47 <220> FEATURE:
     48 <221> NAME/KEY: modified_base
     49 <222> LOCATION: (3)...(0) 7 unacceptable captanation > Item |
     52 <221> NAME/KEY: modified_base
     53 <222> LOCATION: (6)...(0)
     54 <223> OTHER INFORMATION (
     56 <221> NAME/KEY: modified_base
     57 <222> LOCATION: (12)...(0)
     58 <223> OTHER INFORMATION: (I)
     60 <221> NAME/KEY: modified_base
     61 <222> LOCATION: (15)...(0)
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,862

DATE: 10/30/2001

TIME: 13:19:11

```
Input Set : A:\W112887.txt
                      Output Set: N:\CRF3\10302001\I937862.raw
                                               Some errors as (1) 4(2)
Repeated throughout 20
      62 <223> OTHER INFORMATION: (I
      64-<400> SEQUENCE: 3-
    65 gcnccngayt gntgnccraa
     67_<210>-SEQ-ID-NO: 4
      68 <211> LENGTH: 20
      69 <212> TYPE:-DNA
      70 <243> ORGANISM: Artificial Sequence
     72 <220> FEATURE:
     13 <221> NAME/KEY: modified_base
     74 <222> LOCATION: (9)...(0)
     75 <223> OTHER INFORMATION: (I
     77 <221> NAME/KEY: modified_base
     78 <222> LOCATION: (12)...(0)
     79 <223> OTHER INFORMATION: (I)
     81 <221> NAME/KEY: modified_base
     82 <222> LOCATION: (15)...(0)
     83 <223> OTHER INFORMATION: (1)
     85 <221> NAME/KEY: modified_base
     86 <222> LOCATION: (18)...(0)
     87 <223> OTHER INFORMATION:
     89 <400> SEQUENCE: 4
   > 90 atgtaygtnc cnccnggngg
                                                                                   20
     92 <210> SEQ ID NO:
     93 <211> LENGTH: 20
     94 <212> TYPE: DNA
     95 <213> ORGANISM: Artificial Sequence
     97 <220> FEATURE:
     98 <221> NAME/KEY: modified_base
     99 <222> LOCATION: (3)...(0)
     100 <223> OTHER INFORMATION(: I
     102 <221> NAME/KEY: modified_base
     103 <222> LOCATION: (9)...(0)
     104 <223> OTHER INFORMATION ( I
     106 <221> NAME/KEY: modified_base
     107 <222> LOCATION: (15)...(0)
     108 <223> OTHER INFORMATION: (I
W--> 109 <400> SEQUENCE:-5
                                                                                    20
W--> 110 ggngcrttnc cytcngtcca
     112-<210>-SÉQ-ID-NO:_6
     113 <211> LENGTH: 20
     114 <212> TYPE: DNA
     115 <213> ORGANISM: Artificial Sequence
     117 <220> FEATURE:
     118 <221> NAME/KEY: modified_base
     119 <222> LOCATION: (6)...(0)
     120 <223> OTHER INFORMATION: (I
     122 <221> NAME/KEY: modified_base
     123 <222> LOCATION: (8)...(0)
     124 <223> OTHER INFORMATION: (I
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,862

DATE: 10/30/2001

TIME: 13:19:11

```
Input Set : A:\W112887.txt
                     Output Set: N:\CRF3\10302001\I937862.raw
     126 <221> NAME/KEY: modified_base
     127 <222> LOCATION: (9)...(9)
     128 <223> OTHER INFORMATION: I,
     130 <221> NAME/KEY: modified_base
     131 <222> LOCATION: (18)...(0)
     132 <223> OTHER INFORMATION I
     134 < 400 > 8EQUENCE: 6
                                                                                    20
   > 135 acrtgncnng tytgcatngt
     137 <210> SEQ ID NO: 7
     138 <211> LENGTH: 18
     139 <212> TYPE: DNA
     140 <213> ORGANISM: Artificial Sequence
     142 <220> FEATURE:
     143 <221> NAME/KEY: modified_base
     144 <222> LOCATION: (3)...(0)
     145 <223> OTHER INFORMATION(: Í
     147 <221> NAME/KEY: modified_base
     148 <222> LOCATION: (15)...(9)
     149 <223> OTHER INFORMATION I
     151 <400> SEQUENCE: 7

★ 152 awnttytayg ayggntgg

                                                                                    18
     154 <210> SEQ ID NO: 8
     155 <211> LENGTH: 20
     156 <212> TYPE: DNA
     157 <213> ORGANISM: Artificial Sequence
     159 <220> FEATURE:
     160 <221> NAME/KEY: modified_base
     161 <222> LOCATION: (3)...(0)
     162 <223> OTHER INFORMATION(: 1
     164 <221> NAME/KEY: modified_base
     165 <222> LOCATION: (5)...(0)
     166 <223> OTHER INFORMATION:
     168 <221> NAME/KEY: modified_base
     169 <222> LOCATION: (6)...(0)
     170 <223> OTHER INFORMATION: (1/2)
     172 <221> NAME/KEY: modified_base
     173 <222> LOCATION: (9)...(0)
     174 <223> OTHER_INFORMATION:/I/
     176 <400 > SEQUENCE: 8
W--> 177 _tananngtnc ccatrttrtt
                                                                                    20
     179 <210> SEQ ID NO:
     180 <211> LENGTH: 20
     181 <212> TYPE: DNA
     182 <213> ORGANISM: Artificial Sequence
     184 <220> FEATURE:
     185 <221> NAME/KEY: modified_base
     186 <222> LOCATION: (9)...(0)
     187 <223> OTHER INFORMATION (I)
     189 <221> NAME/KEY: modified_base
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,862

# RAW SEQUENCE LISTING DATE: 10/30/2001 PATENT APPLICATION: US/09/937,862 TIME: 13:19:11

Input Set : A:\W112887.txt

Output Set: N:\CRF3\10302001\I937862.raw

```
190 <222> LOCATION: (15)...(0)
     191 <223> OTHER INFORMATION: I
     193 <221> NAME/KEY: modified_base
     194 <222> LOCATION: (18)...(0)
    195 <223> OTHER INFORMATION: (I
     197 <400> SEQUENCE: 9
   > 198 atgtayrtnc cnmcnggngc
                                                                                    20
     200 <210> SEQ ID NO: 10
     201 <211> LENGTH: 20
     202 <212> TYPE: DNA
     203 <213> ORGANISM: Artificial Sequence
     205 <220> FEATURE:
     206 <221> NAME/KEY: modified_base
     207 <222> LOCATION: (3)...(9)
     208 <223> OTHER INFORMATION: Æ
     210 <221> NAME/KEY: modified_base
     211 <222> LOCATION: (6)...(0)
     212 <223> OTHER INFORMATION: (1)
     214 <221> NAME/KEY: modified_base
     215 <222> LOCATION: (12)...(0)
     216 <223> OTHER INFORMATION: (I-
     218 <221> NAME/KEY: modified_base
     219 <222> LOCATION: (15)...(0)
     220-<223> OTHER INFORMATION:/I
    222 <400> SEQUENCE: 10
W--> 223 ggnggnggrt cngtnakytt
                                                                                   20
     225 <210> SEQ ID NO: 11
     226 <211> LENGTH: 20
     227 <212> TYPE: DNA
     228 <213> ORGANISM: Artificial Sequence
     230 <220> FEATURE:
     231 <221> NAME/KEY: modified_base
    232 <222> LOCATION: (3)...(0)
    233 <223> OTHER INFORMATION: T
    235 <221> NAME/KEY: modified_base
    236 <222> LOCATION: (12)...(0)
    237 <223> OTHER INFORMATION: I
    239 <221> NAME/KEY: modified_base
    240 <222> LOCATION: (15)...(0).
    241 <223> OTHER INFORMATION
    243 <400> SEQUENCE: 11
   > 244 gangaraayc tnatngarac
                                                                                   20
    246 <210> SEO ID NO: 12
    247 <211> LENGTH: 19
    248 <212> TYPE: DNA
    249 <213> ORGANISM: Artificial Sequence
    251 <220> FEATURE:
    252 <221> NAME/KEY: modified_base
    253 <222> LOCATION: (6)...(0)
```

#### RAW SEQUENCE LISTING

G DATE: 10/30/2001

PATENT APPLICATION: US/09/937,862

TIME: 13:19:11

Input Set : A:\W112887.txt

Output Set: N:\CRF3\10302001\I937862.raw

```
254 <223> OTHER INFORMATION: 1
      256 <221> NAME/KEY: modified_base
      257 <222> LOCATION: (12)...(9)
      258 <223> OTHER—INFORMATION I
      260 <400> SEQUENCE: 12
    > 261 cccatnakrt cnatrtccc
                                                                                    19
      263 <210> SEQ ID NO: 13
      264 <211> LENGTH: 20
      265 <212> TYPE: DNA
      266 <213> ORGANISM: Artificial Sequence
      268 <220> FEATURE:
      269 <221> NAME/KEY: modified_base
      270 <222> LOCATION: (9)...(0)
      271 <223> OTHER INFORMATION I
      273 <221> NAME/KEY: modified_base
     274 <222> LOCATION: (11)...(0)
     275 <223> OTHER INFORMATION (1
     277 <221> NAME/KEY: modified_base
     278 <222> LOCATION: (12)...(0)
     279 <223> OTHER INFORMATION: (I
     281 <400> SEQUENCE: 13
W--> 282 gtretyacna nnagrtcyct
                                                                                    20
     284 <210> SEQ ID NO: 14
     285 <211> LENGTH: 19
     286 <212> TYPE: DNA
     287 <213> ORGANISM: Artificial Sequence
W--> 289-<220> FEATURE:
W--X 289 <223> OTHER INFORMATION:
     289 <400> SEQUENCE: 14
     290 tsaarytgtg caargacac
                                                                                   19
     292 <210> SEQ ID NO: 15
     293 <211> LENGTH: 18
     294 <212> TYPE: DNA
     295 <213> ORGANISM: Artificial Sequence
W--> 297 <220> FEATURE:
W--> 297 <223> OTHER INFORMATION:
     297 <400> SEQUENCE: 15
     298 stgyccagat ttcagtgt
                                                                                   18
     300 <210> SEQ ID NO: 16
     301 <211> LENGTH: 20
     302 <212> TYPE: DNA
     303 <213> ORGANISM: Artificial Sequence
W--> 305 <220>-FEATURE:--
  >> 305 <223> OTHER INFORMATION:
    305 <400> SEQUENCE:-16-
W--> 306 ggnacncayr tnathtggga
                                                                                   20
     308 <210> SEQ ID NO: 17
     309 <211> LENGTH: 20
     310 <212> TYPE: DNA
```



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,862 T

DATE: 10/30/2001 TIME: 13:19:12

Input Set : A:\W112887.txt

Output Set: N:\CRF3\10302001\I937862.raw

```
L:4 M:201 W: Mandatory field data missing, APPLICANT NAME
 L:16 M:270 C: Current Application Number differs, Replaced Current Application No
 L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:31 M:258 W: Mandatory Feature missing, <220> FEATURE:
 L:31 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:39 M:258 W: Mandatory Feature missing, <220> FEATURE:
 L:39 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:40~M:258~W: Mandatory Feature missing, <221> not found for SEQ ID#:2
 L:40 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
 L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
 L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
 L:109 M:283 W: Missing Blank Line separator, <400> field identifier
 L\!:\!110 M\!:\!341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
 L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L\!:\!244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
\tt L:261~M:341~W:~(46)~"n"~or~"Xaa"~used, for SEQ ID#:12
 L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:289 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:289 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:297 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:297 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:305 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:305 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:306 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:306 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L\colon\!377 M\colon\!341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:402\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:2022 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:81
L:2022 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:81
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2034~M:258~W: Mandatory Feature missing, <221> not found for SEQ ID#:82
L:2034 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:82
L\!:\!2034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2046~M:258~W: Mandatory Feature missing, <221> not found for SEQ ID#:83
L:2046~M:258~W: Mandatory Feature missing, <222> not found for SEQ ID#:83
L:2046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
```

VERIFICATION SUMMARY

DATE: 10/30/2001

PATENT APPLICATION: US/09/937,862

TIME: 13:19:12

Input Set : A:\W112887.txt

Output Set: N:\CRF3\10302001\1937862.raw

 $L:2058\ M:258\ W:$  Mandatory Feature missing, <221> not found for SEQ ID#:84 L:2058 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:84
L:2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:2083 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:86
L:2083 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:86

L:2083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86